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Title: Annual Inspection of NRDL Buildings

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Notes: List of NRDL Buildings on Hunter's Point in '58

FIELD INSPECTION REPORT

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1 April 1958

Made by: G. Klinkner) Structural Inspectors, SFMS
 R. Harris)
 L. O'Keefe Electrical Inspector "
 L. Wilcox Mechanical "
 H. B. Dabney- Quartermen, Maintenance, NRDL

To: Head, Inspection Branch

Subj: Naval Radiological Defence Laboratory buildings; annual inspection of

Ref: (a) TP-Pv-3L

1. Inspections covering 12 buildings and one barge were made from 19 to 23 March inclusive. The following is a report on each building covering required repairs and scope cost.

<u>Building 364</u>	<u>Cost</u>	<u>Total</u>
<u>Structural-----</u>		\$ 650.
1. Exterior metal components (entrance doors, ladders, stacks flues, ventilators, monorails and supporting structures) have not been painted since 1950. Paint is worn thin affording poor protection. Clean and paint all exterior metal.		
2. Seal cracks in wall which allow moisture to enter building.		
3. Paint interior unprotected surface, Area #3.		
4. Move interior ladder away from wall 4 inches to allow vertical clearance.		
5. Paint exterior of wood frame building east of Bldg. 364 (approximately 640 square feet).		
<u>Electrical-----</u>		125.
1. Install sixteen 3-wire Hubbell 5262 grounded receptacles to replace ungrounded receptacles.		
2. Ground push button control for crane.		
<u>Mechanical-----</u>		700.
1. Hot-cell vent pipe on rear, exterior, of building is deteriorated. Renew with stainless steel.		
2. Renew 3/4 pipe nipple under sink, Work Area 2.		
3. Repair steam valve leak on overhead unit heater.		
4. Repair steam leak at heating coil for boiler in Boiler Room.		
5. Repair steam leak in overhead unit heater at mud leg and steam valve, Area #3.		
		\$ 1,475.

425:gk:mg
17a

<u>Building</u>	<u>Cost</u>	<u>Total</u>
<u>Building 365</u>		
<u>Structural</u>	\$ 425.	
1. Paint exterior doors, trim and eaves. 2. Renew vent screens under eaves, perimeter of building. 3. Replace broken asbestos shingles. 4. Repair hole in transite behind door to shower room, broken by disconnected door closer. 5. Paint shower room walls and ceiling (sheetrock).		
<u>Electrical</u>	90.	
1. Install fifteen 3-wire Hubbell 5262 grounded receptacles to replace ungrounded receptacles.		
<u>Mechanical</u>	260.	
1. Replace broken top on toilet tank and two missing shower heads in shower room. 2. Install insulated union between copper and galvanized pipe in shower. 3. Install plug in drain pipe where wash basin was removed. 4. Re-set slop sink drain.		775.
<u>Building 506</u>		
Portion of this building being reactivated for NSDL. No building repairs contemplated at present.		
<u>Building 510</u>		
<u>Structural</u>	120.	
1. Replace damaged doors to Exterior Door 113 and double doors to Boiler Room.		
<u>Electrical</u>	90.	
1. Install fifteen 3-wire Hubbell 5262 grounded receptacles to replace ungrounded receptacles.		210.
<u>Building 510A</u>		
<u>Structural</u>	450.	
1. Clean and paint interior and exterior of metal doors and sash, front of building. 2. Regrade and armor-coat approximately 275 square foot area at rear of building.		
<u>Electrical</u>	25.	
1. Ground push button control for crane.		475.

425:gk:mg
173

<u>Building</u>	<u>Cost</u>	<u>Total</u>
<u>Building 517</u>		
<u>Structural</u>	\$ 200.	
1. Replace fifteen broken wire glass. 2. Paint main entrance door. 3. Paint exterior metal components including sash, conduit, piping.		
<u>Electrical</u>	55.	
1. Install ten 3-wire Hubbell 5262 grounded receptacles to replace ungrounded receptacles.		\$ 255.
<u>Building 529</u>		
<u>Structural</u>	1,750.	
1. Repair and paint exterior metal components (monorail, exhaust stack, doors, piping). 2. Regrade and armor-coat approximately 10,000 square foot area at rear of Bldg. 506 and around Bldg. 529.		
<u>Electrical</u>	50.	
1. Remove dead crane wires. 2. Install six 3-wire Hubbell 5262 grounded receptacles to replace ungrounded receptacles.		
<u>Mechanical</u>	40.	
1. Repair steam leaks at motorized valve on overhead unit heater.		1,840.
<u>Building 707</u>		
<u>Structural</u>	5,250.	
1. Replace damaged corrugated aluminum on fences and gates. 2. Replace all screens on windows, doors and perimeter of eaves with aluminum screens. 3. Renew screen door on annex building used as feed building. 4. Install roof access ladder. 5. Water is entering building through cracks in exterior wall. Weatherproofing is not satisfactory. Recommend application of new weatherproofing material. 6. Paint all exterior wood and metal work exclusive of Cyclone fences. Include annex building used for feed building. 7. Secure loose metal jambs, Rooms 3, 4 and 6. 8. Clean and paint monorail, Room 4. 9. Regrade hot waste storage area rear of building to drain away from area instead of through it. (Design required.)		
<u>Electrical</u>	200.	
1. Repair temperature control, Room 8. 2. Replace broken fixture, Room 2. 3. Ground service conduit to annex used as feed building. 4. Install twelve 3-wire Hubbell 5262 grounded receptacles to replace ungrounded receptacles.		

425:gk:ng
17a

Building 707-continued

Cost Total

Electrical-continued

5. Remove switches from two portable refrigerators. Install proper type switches and wiring for refrigerator boxes. Re-install removed switches into original installation on hot water heaters.

Mechanical-

1. Clean and paint ventilator shutters; replace broken chains.
 2. Clean and paint exposed metal on portable walk-in boxes.
Replace missing metal cover for refrigerator compressor.
 3. Secure water pipe with straps on west side of building.
 4. Renew cracked fire brick in boiler located in Boiler Room.
Repair leak in 1/2-inch pipe at relief valve, rear of boiler.
 5. Replace broken toilet tank top.
 6. Move kerosene storage tanks away from boiler (hazard). 5,700.

Building 708

Structural

1. Paint wood ends, doors and ventilator hoods.

Building 815.

Structural

1. Redwood exteriors of cooling towers are very dry and becoming weather-checked. Further study for corrective action is recommended.
 2. Repair blisters on roof.
 3. Paint roof cat-walks (2,000 square feet).
 4. Clean and paint metal blower hoods and ducts on roof. Repair or replace damaged hinges on inspection door to blower motors.
 5. Grade to drain awning roof of cafeteria.
 6. Clean and paint metal doors and jambs of elevator penthouses.
 7. Install non-skid material on stairs and landings from sixth floor to cafeteria.
 8. Adjust panic hardware in auditorium; secure strike plates.
 9. Secure metal door stops and repair damaged lower sections of jambs on fifth floor.
 10. Replace dryrot wood blocks in Room 63k.
 11. Floor blocks loose in maintenance section, first floor.
 12. Exterior walls are cracked admitting water into building. Waterproofing not satisfactory. A study of this problem and its solution is in progress.
 13. Repair plaster cracks in galley of cafeteria, shower rooms and escalator runways. These cracks are not of serious nature.

<u>Building 815-continued</u>	<u>Cost</u>	<u>Total</u>
<u>Electrical</u>	200.	
1. Panel covers are removed on 4th and 6th floors, second increment storage area. Replace. 2. Cable fittings at the aisle lights of the auditorium, 6th floor, tear the seat covers. Replace sixteen fittings. 3. Power supply to trailers was installed as temporary two years ago. Weather-head and cable at rear of building, which supplies power to trailers, is exposed to damage from trucks and personnel. Protect by barricade or cover. <u>Note:</u> This installation should be made permanent if continued to be used.		
<u>Mechanical</u>	1,800.	
1. Cooling towers: Reset water float valves for proper level. Clean and paint all exposed metal including fans and braces. 2. Exhaust fans on roof: Considerable vibration on No. 6A, 4C and fans from toilets and cafeteria. Balance fans, renew bearings as necessary, and check for proper grade of grease used for lubrication. 3. Install a second thermostat on gas deep fat frier in cafeteria to limit maximum temperature to 450° in case of failure of first thermostat (BuDocks Inst. 11320.7, Ch. 9). 4. Remove unit and paint all filter screen frames in mechanical rooms. Accomplish when filters are serviced. 5. Remove rust and paint frames that hold filters in mechanical rooms. 6. Re-lag and repair as necessary all insulation on refrigeration and steam piping in mechanical rooms. 7. Properly identify all piping in basement and under building. 8. Properly identify hot tank from isotope room to basement and paint all exposed ferrous metal brackets. 9. Renew leaking galvanized 2-inch nipple at water valve from 4-inch main located in basement near center of building, first increment. 10. Repair leak on steam valve packing gland located at metering station in basement, first increment. 11. Repack 3/8-inch pipe valves at steam reducing station in basement, first increment. 12. Renew 1-inch steam relief valve at steam reducing station in basement, second increment. 13. Lag approximately 90 lineal feet of new 1-1/4 inch steam pipe in basement, second increment. 14. Repair steam leak from upper floor where new 1-1/4 inch steam pipe is located in basement, 2nd increment west end. 15. Repair 2-1/2 inch fresh water pipe nipple from 8 inch main under door entrance. Lag 8 inch main to prevent condensation, basement, 2nd increment. 16. Aluminum fins on evaporators for refrigeration and steam coils are deteriorated, caused by entrance of salt air and dirt from exterior. Recommend study be made to correct.	4,500.	

425:gk:mg
17a

<u>Building</u>	<u>Cost</u>	<u>Total</u>
<u>Structural</u>		\$1,350.
1. Interior paint, particularly in the shielded enclosure, halls and Room 5, is scaling from walls extensively. Areas in other rooms show signs of scaling but not as much. Remove all loose paint, scale, and foreign material. Repaint with a good masonry paint.		
2. Seal all construction cracks which show evidence of moisture entrance. (interior)		
3. Clean and paint monorail on second floor.		
4. Exterior weatherproofing is not satisfactory. A study is being made for corrective action.		
5. Regrade and armor-coat approximately 10,000 square feet of fenced storage area, east side of building.		
<u>Electrical</u>		10.
1. Ground conduit to crane on second floor.		
<u>Mechanical</u>		50.
1. Adjust float valve for proper flow on water tower for air conditioning system, Mechanical Room on roof.		
2. Clean filter room.		1,410.
<u>Mountain Springs Water Co. Building</u>		
<u>Structural</u>		1,950.
1. Access road from Griffith Street to building is in very poor condition making it difficult to get to building. It is very muddy at entrance to road with deep chuck holes every few feet. Recommend roadbed of track ballast and grade for drainage (approximately 1/2 to 1 1/2 inches per foot).		
2. The building itself is in very poor condition and beyond economical repair. However, for present usage windows should be covered with expanded metal for security, and only limited repairs to roof, siding, doors, windows and trusses.		1,950.
<u>Barge YMK 16</u>		
<u>Structural</u>		6,600.
1. Clean and spot sandblast exterior hull. Paint exterior hull with rust inhibitive paint.		
2. Repair damaged corrugated siding and roof.		
3. Repair damaged and corroded sliding doors and hardware.		
4. Repair holes around pipes and unused holes in siding.		
5. Repair steel corner fenders.		
6. Recoat and seal roof.		
7. Clean and paint all interior compartments that are dirty and give poor light reflection.		
8. Regrade area around barge and drain into storm sewer.		

425:gk:mg
17a

Barge YFNY 16-continued

Cost Total

Electrical----- 1,700.

1. Rewire blower mounted in hood in lower deck work room with approved type ship's wiring.
2. Remove Romex type wiring in lighting and receptacle circuits and re-wire with approved ship's type wiring.
3. Install approximately thirty 3-wire grounded ship's type receptacles to replace ungrounded receptacles.

Mechanical----- 200.

1. Replace 3/4 inch nipple and tee at relief valve in Boiler Room.
2. Replace elbow and nipple at steam convector in Room 109.
3. Install guard in front of steam coils under work bench in Machine Shop.
4. Replace steam convector, Room 206.
5. Replace leaking 3/4 inch union on steam pipe under stairs, Room 206.
6. Install sight glass on pipe from water tank in Water Purification Room.

8,500.

NET TOTAL COST----- \$27,165.

RECAPITULATION

Building

364	\$ 1,475.
365	775.
506	-----
510	210.
510A	475.
517	255.
529	1,840.
707	5,700.
708	75.
815	4,500.
816	1,410.
Mountain Springs Water Co.	1,950.
YFNY 16 Barge	<u>8,500.</u>

\$27,165.